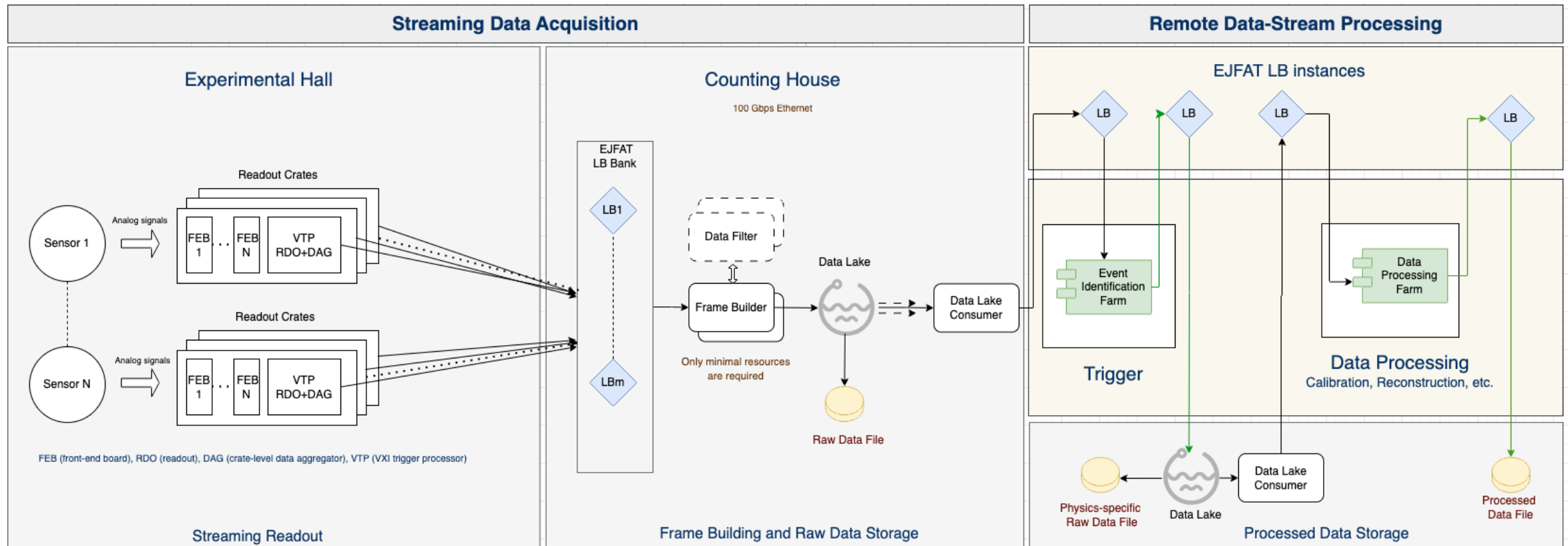


CODA SRO DAQ with Real-Time Data Processing

- End-to-end streaming DAQ pipeline design
- Seamless deployment and operability
- Intelligent orchestration and scalability
- Real-time monitoring, feedback, and fault resilience

Abstract ID: 46

V. Gyurjyan, D. Abbott, I. Baldin, M. Goodrich, D. Howard, Y. Kumar, D. Lawrence, B. Raydo, S. Sheldon
Jefferson Lab — ESnet



Streaming Readout and Data Stream Processing

Data Stream Processing

- 100 Gbps CLAS12 data streaming to NERSC / ORNL via ESnet
- Real-time remote processing with immediate feedback
- EJFAT-based transport and load balancing
- Validated on a triggered readout: applicable to live streaming

